MSDS for: LN-930 Revised: 20-Jan-2004

SECTION 1:

COMMON NAME: CAS NUMBER:

64742-89-8

PRODUCT IDENTIFIER: LN-930 LIQUID NAILS ADHESIVE FOR MIRRORS

DATE OF PREPARATION: JANUARY 20, 2004

PRODUCT USE: ADHESIVE

MANUFACTURED BY: MACCO ADHESIVES

925 EUCLID AVENUE

CLEVELAND, OHIO 44115, U.S.A.

ICI PAINTS (CANADA) 8200 KEELE STREET

CONCORD, ONTARIO L4K 2A5, CANADA

EMERGENCY AND MSDS TELEPHONE NUMBER: 1-800-545-2643

MSDS PREPARED BY: PRODUCT SAFETY AND TOXICOLOGY DEPARTMENT

ICI PAINTS NORTH AMERICA

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT		WT.%
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	2-METHYLPENTANE 2-METHYLPENTANE 107-83-5	5-10
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	LIMESTONE LIMESTONE 1317-65-3	30-40
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	KAOLI CLAY 1332-58-7	20-30
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	QUARTZ QUARTZ 14808-60-7	0.1-1.0
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	BENZENE, 1,3-DIETHENYL-, POLYMER WITH 1,3- BUTADIENE AND ETHENYLBENZENE STYRENE-BUTADIENE POLYMER 26471-45-4	1-5
CHEMICAL NAME: COMMON NAME: CAS NUMBER:	DISTILLATES, PETROLEUM, HYDROTREATED HEAVY NAPHTHENIC PETROLEUM HYDROCARBON 64742-52-5	1-5
CHEMICAL NAME:	SOLVENT NAPHTHA (PETROLEUM), LIGHT ALIPHATIC	1-5

LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLEUM)

CHEMICAL NAME: DISTILLATES (PETROLEUM), STEAM-CRACKED, POLYMERS 10-20

WITH LIGHT STEAM-CRACKED PETROLEUM NAPHTHA

COMMON NAME: AROMATIC HYDROCARBON RESIN

CAS NUMBER: 68410-16-2

CHEMICAL NAME: 2,2-DIMETHYLBUTANE 1-5

COMMON NAME: DIMETHYLBUTANE

CAS NUMBER: 75-83-2

CHEMICAL NAME: 2,3-DIMETHYLBUTANE 1-5

COMMON NAME: DIMETHYLBUTANE

CAS NUMBER: 79-29-8

CHEMICAL NAME: RESIN ACIDS AND ROSIN ACIDS, ESTERS WITH GLYCEROL 1-5

COMMON NAME: ROSIN GLYCEROL ESTER

CAS NUMBER: 8050-31-5

CHEMICAL NAME: BENZENE, ETHENYL-, POLYMER WITH 1,3-BUTADIENE 1-5

COMMON NAME: STYRENE-BUTADIENE POLYMER

CAS NUMBER: 9003-55-8

CHEMICAL NAME: 3-METHYLPENTANE 1-5

COMMON NAME: 3-METHYL PENTANE

CAS NUMBER: 96-14-0

SECTION 3: HAZARDS IDENTIFICATION

HMIS CODE: *2-4-0-H

PRIMARY ROUTE(S) OF EXPOSURE: INHALATION, SKIN CONTACT, EYE

CONTACT, INGESTION.

EFFECTS OF OVEREXPOSURE

INHALATION: IRRITATION OF RESPIRATORY TRACT. PROLONGED INHALATION

MAY LEAD TO LOSS OF APPETITE, MUCOUS MEMBRANE IRRITATION, FATIGUE, DROWSINESS, DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE, UNCOORDINATION, NAUSEA, VOMITING, SORE THROAT, COUGHING, CENTRAL NERVOUS SYSTEM DEPRESSION, INTOXICATION, ANESTHETIC EFFECT OR NABCOSIS, DIEFICIAL TY OF PREATHING, CONNAIL SIONS

NARCOSIS, DIFFICULTY OF BREATHING, CONVULSIONS, PNEUMOCONIOSIS, LOSS OF CONSCIOUSNESS, DEATH.

SKIN CONTACT: IRRITATION OF SKIN. PROLONGED OR REPEATED CONTACT CAN

CAUSE DERMATITIS, DEFATTING.

EYE CONTACT: IRRITATION OF EYES. PROLONGED OR REPEATED CONTACT CAN

CAUSE CONJUNCTIVITIS, BLURRED VISION, TEARING OF EYES, REDNESS OF EYES, SEVERE EYE IRRITATION, CORNEAL INJURY.

INGESTION: INGESTION MAY CAUSE LUNG INFLAMMATION AND DAMAGE DUE

TO ASPIRATION OF MATERIAL INTO LUNGS, DROWSINESS,

DIZZINESS AND/OR LIGHTHEADEDNESS, HEADACHE,

UNCOORDINATION, NAUSEA, VOMITING, DIARRHEA, GASTRO-INTESTINAL DISTURBANCES, ABDOMINAL PAIN, COUGHING, CENTRAL NERVOUS SYSTEM DEPRESSION, INTOXICATION,

DIFFICULTY OF BREATHING, PULMONARY EDEMA, CONVULSIONS, PARALYSIS, CYANOSIS, CARDIAC FAILURE, DEATH.

MEDICAL ONDITIONS AGGRAVATED BY EXPOSURE:

EYE, SKIN, RESPIRATORY DISORDERS, LUNG DISORDERS.

SECTION 4: FIRST-AID MEASURES

INHALATION: REMOVE TO FRESH AIR. RESTORE AND SUPPORT CONTINUED

BREATHING. GET EMERGENCY MEDICAL ATTENTION. HAVE TRAINED PERSON GIVE OXYGEN IF NECESSARY. GET MEDICAL HELP FOR ANY BREATHING DIFFICULTY. REMOVE TO FRESH AIR IF INHALATION CAUSES EYE WATERING, HEADACHES, DIZZINESS, OR OTHER DISCOMFORT. GET MEDICAL ATTENTION IF DISCOMFORT

OR IRRITATION PERSISTS.

SKIN CONTACT: WASH THOROUGHLY WITH SOAP AND WATER. IF ANY PRODUCT

REMAINS, GENTLY RUB PETROLEUM JELLY, VEGETABLE OR

MINERAL/BABY OIL ONTO SKIN. REPEATED APPLICATIONS MAY BE

NEEDED. REMOVE CONTAMINATED CLOTHING. WASH

CONTAMINATED CLOTHING BEFORE RE-USE. IF IRRITATION

OCCURS, CONSULT A PHYSICIAN.

EYE CONTACT: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER.

ESPECIALLY UNDER LIDS FOR AT LEAST 15 MINUTES. IF IRRITATION OR OTHER EFFECTS PERSIST, OBTAIN MEDICAL

TREATMENT.

INGESTION: IF SWALLOWED, OBTAIN MEDICAL TREATMENT IMMEDIATELY.

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT (SETA): 1 F./-17 C. LOWER EXPLOSIVE LIMIT: 1.0 %

UPPER EXPLOSIVE LIMIT NOT AVAILABLE

FIRE EXTINGUISHING MEDIA: DRY CHEMICAL OR FOAM, WATER FOG, CARBON DIOXIDE.

UNUSUAL FIRE AND EXPLOSION HAZARDS

CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT OR FIRE. VAPORS MAY IGNITE EXPLOSIVELY AT AMBIENT TEMPERATURES. VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL LONG DISTANCES TO A SOURCE OF IGNITION AND FLASH BACK. VAPORS CAN FORM EXPLOSIVE MIXTURES IN AIR AT ELEVATED TEMPERATURES. CLOSED CONTAINERS MAY BURST IF EXPOSED TO EXTREME HEAT OR FIRE. MAY DECOMPOSE UNDER FIRE CONDITIONS EMITTING IRRITANT AND/OR TOXIC GASES.

FIRE FIGHTING PROCEDURES

WATER MAY BE USED TO COOL AND PROTECT EXPOSED CONTAINERS. FIREFIGHTERS SHOULD USE FULL PROTECTIVE CLOTHING, EYE PROTECTION, AND SELF-CONTAINED BREATHING APPARATUS.

HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS:

CARBON MONOXIDE, CARBON DIOXIDE, ACRID FUMES, FORMALDEHYDE, OXIDES OF SULFUR, OXIDES OF CALCIUM, ALDEHYDES, TOXIC GASES, SMOKE, AND SOOT.

SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

COMPLY WITH ALL APPLICABLE HEALTH AND ENVIRONMENTAL REGULATIONS. ELIMINATE ALL SOURCES OF IGNITION. VENTILATE AREA. VENTILATE AREA WITH EXPLOSION-PROOF EQUIPMENT. USE NON-SPARKING TOOLS. EVACUATE ALL UNNECESSARY PERSONNEL. PLACE COLLECTED MATERIAL IN PROPER CONTAINER. COMPLETE PERSONAL PROTECTIVE EQUIPMENT MUST BE USED DURING CLEANUP.

LARGE SPILLS: SHUT OFF LEAK IF SAFE TO DO SO. DIKE AND CONTAIN SPILL. PUMP TO STORAGE OR SALVAGE VESSELS. USE ABSORBENT TO PICK UP EXCESS RESIDUE. KEEP SALVAGEABLE MATERIAL AND RINSE WATER OUT OF SEWERS AND WATER COURSES.

SMALL SPILLS: USE ABSORBENT TO PICK UP RESIDUE AND DISPOSE OF PROPERLY.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: STORE BELOW 80F. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME.

OTHER PRECAUTIONS:

USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY. KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH SKIN AND EYES, AND BREATHING OF VAPORS. WASH HANDS THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING OR SMOKING. KEEP CONTAINERS TIGHTLY CLOSED AND UPRIGHT WHEN NOT IN USE. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES. GROUND EQUIPMENT WHEN TRANSFERRING TO PREVENT ACCUMULATION OF STATIC CHARGE.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

COMMON NAME: 2-METHYLPENTANE

CAS NUMBER: 107-83-5
ACGIH(TWA): 500 PPM
ACGIH(STEL): C 1000 PPM

COMMON NAME: LIMESTONE CAS NUMBER: 1317-65-3

ACGIH(TWA): 10 MG/M3 OSHA(TWA): 5 MG/M3

COMMON NAME: CLAY CAS NUMBER: 1332-58-7

ACGIH(TWA): 2 MG/M3 OSHA(TWA): 5 MG/M3

COMMON NAME: QUARTZ CAS NUMBER: 14808-60-7

ACGIH(TWA): 0.05 MG/M3 OSHA(TWA): 0.1 MG/M3

COMMON NAME: PETROLEUM HYDROCARBON

CAS NUMBER: 64742-52-5

ACGIH(TWA): 5 MG/M3 OSHA(TWA): 5 MG/M3

ACGIH(STEL): 10 MG/M3

COMMON NAME: LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLEUM)

CAS NUMBER: 64742-89-8 OSHA(TWA): 300 PPM

COMMON NAME: DIMETHYLBUTANE

CAS NUMBER: 75-83-2 ACGIH(TWA): 500 PPM ACGIH(STEL): 1000 PPM

COMMON NAME: DIMETHYLBUTANE

CAS NUMBER: 79-29-8 ACGIH(TWA): 500 PPM ACGIH(STEL): 1000 PPM

COMMON NAME: ROSIN GLYCEROL ESTER

CAS NUMBER: 8050-31-5 ACGIH(TWA): 5 MG/M3

COMMON NAME: 3-METHYL PENTANE

CAS NUMBER: 96-14-0 ACGIH(TWA): 500 PPM ACGIH(STEL): 1000 PPM

RESPIRATORY PROTECTION

CONTROL ENVIRONMENTAL CONCENTRATIONS BELOW APPLICABLE EXPOSURE STANDARDS WHEN USING THIS MATERIAL. WHEN RESPIRATORY PROTECTION IS DETERMINED TO BE NECESSARY, USE A NIOSH/MSHA (CANADIAN Z94.4) APPROVED ELASTOMERIC SEALING-SURFACE FACEPIECE RESPIRATOR OUTFITTED WITH ORGANIC VAPOR CARTRIDGES AND PAINT SPRAY (DUST/MIST) PREFILTERS. DETERMINE THE PROPER LEVEL OF PROTECTION BY CONDUCTING APPROPRIATE AIR MONITORING. CONSULT 29CFR1910.134 FOR SELECTION OF RESPIRATORS (CANADIAN Z94.4).

VENTILATION: PROVIDE DILUTION VENTILATION OR LOCAL EXHAUST TO PREVENT BUILD-UP OF VAPORS. USE EXPLOSION-PROOF EQUIPMENT. USE NON-SPARKING EQUIPMENT.

PERSONAL PROTECTIVE EQUIPMENT: EYE WASH, SAFETY SHOWER, SAFETY GLASSES OR GOGGLES. IMPERVIOUS GLOVES, IMPERVIOUS CLOTHING, FACE SHIELD.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE: NOT AVAILABLE SPECIFIC GRAVITY: 1.389

BOILING RANGE (F/C): 122-122/50-50 WEIGHT PER GALLON: 11.57/13.89IMP

%VOLATILE BY VOLUME: 33.34 PHYSICAL STATE: PASTE APPEARANCE: TAN SOLUBLE IN WATER: N

PH: NOT APPLICABLE HMIS CODE: *2-4-0-H

SECTION 10: STABILITY AND REACTIVITY

UNDER NORMAL CONDITIONS: STABLE (SEE SECTION 5 FIRE FIGHTING MEASURES)

MATERIALS TO AVOID: OXIDIZERS, ACIDS, BASES, PEROXIDES. STYRENE

MONOMER.

CONDITIONS TO AVOID: ELEVATED TEMPERATURES, CONTACT WITH

OXIDIZING AGENT, SPARKS, OPEN FLAME, IGNITION

SOURCES.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION 11: TOXICOLOGICAL INFORMATION

COMMON NAME: 2-METHYLPENTANE

CAS NUMBER: 107-83-5

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME: LIMESTONE

CAS NUMBER: 1317-65-3

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

LD50: 6450.00 MG/KG ORL RAT

COMMON NAME: CLAY CAS NUMBER: 1332-58-7

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME: QUARTZ CAS NUMBER: 14808-60-7

COMMON NAME: PETROLEUM HYDROCARBON

CAS NUMBER: 64742-52-5

CARCINOGENICITY LISTED BY: NTP NO IARC YES 1 OSHA NO ACGIH NO

LD50: > 2000.00 MG/KG SKN RBT

COMMON NAME: LIGHT ALIPHATIC SOLVENT NAPHTHA (PETROLEUM)

CAS NUMBER: 64742-89-8

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

LD50: > 3.16 GM/KG SKN RBT LD50: > 5.00 GM/KG ORL RAT

COMMON NAME: AROMATIC HYDROCARBON RESIN

CAS NUMBER: 68410-16-2

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME: DIMETHYLBUTANE

CAS NUMBER: 75-83-2

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME: DIMETHYLBUTANE

CAS NUMBER: 79-29-8

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME: ROSIN GLYCEROL ESTER

CAS NUMBER: 8050-31-5

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME: STYRENE-BUTADIENE POLYMER

CAS NUMBER: 9003-55-8

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

COMMON NAME: 3-METHYL PENTANE

CAS NUMBER: 96-14-0

CARCINOGENICITY LISTED BY: NTP NO IARC NO OSHA NO ACGIH NO

SUPPLEMENTAL HEALTH INFORMATION

CONTAINS A CHEMICAL THAT MAY BE ABSORBED THROUGH SKIN.

NOTICE: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED

OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN

AND NERVOUS SYSTEM DAMAGE. INTENTIONAL MISUSE BY

DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL. OTHER EFFECTS OF OVEREXPOSURE MAY INCLUDE

TOXICITY TO CENTRAL NERVOUS SYSTEM.

CARCINOGENICITY: CONTAINS CRYSTALLINE SILICA WHICH IS CONSIDERED A HAZARD

BY INHALATION. IARC HAS CLASSIFIED CRYSTALLINE SILICA AS CARCINOGENIC TO HUMANS (GROUP 1). CRYSTALLINE SILICA IS ALSO A KNOWN CAUSE OF SILICOSIS, A NONCANCEROUS LUNG DISEASE. THE NATIONAL TOXICOLOGY PROGRAM (NTP) HAS CLASSIFIED CRYSTALLINE SILICA AS A KNOWN HUMAN

CARCINOGEN.

REPRODUCTIVE EFFECTS: NO REPRODUCTIVE EFFECTS ARE ANTICIPATED MUTAGENICITY: NO MUTAGENIC EFFECTS ARE ANTICIPATED TERATOGENICITY: NO TERATOGENIC EFFECTS ARE ANTICIPATED

SECTION 12: ECOLOGICAL INFORMATION

NO ECOLOGICAL TESTING HAS BEEN DONE BY ICI PAINTS ON THIS PRODUCT AS A WHOLE.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

AVOID DISCHARGE TO NATURAL WATERS.

SECTION 14: TRANSPORT INFORMATION

DOT: ADHESIVES, 3, UN1133, PGIII

IMDG: ADHESIVES, CLASS 3, UN1133, PGIII, LIMITED QUANTITY

IATA: CONSUMER COMMODITY,9, ID8000

TDG: NOT AVAILABLE

SECTION 15: REGULATORY INFORMATION

SARA SARA CERCLA HAZ AIR MARINE 302 313 302.4 POLLUTANT POLTNT

THIS PRODUCT CONTAINS NO SARA 302, CERCLA 302.4 OR HAZARDOUS AIR POLLUTANT CHEMICALS. IT ALSO CONTAINS NO CHEMICALS WHICH ARE SUBJECT TO THE REPORTING REQUIREMENTS UNDER SARA 313. AS OF THE DATE OF THIS MSDS, ALL OF

THE COMPONENTS IN THIS PRODUCT ARE LISTED (OR ARE OTHERWISE EXEMPT FROM LISTING) ON THE TSCA INVENTORY. THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR (CONTROLLED PRODUCTS REGULATIONS) AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

SECTION 16: OTHER INFORMATION

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA AVAILABLE AT THE TIME OF PREPARATION OF THIS DATA SHEET AND WHICH ICI PAINTS BELIEVES TO BE RELIABLE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA. ICI PAINTS SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS INFORMATION, OR OF ANY PRODUCT, METHOD OR APPARATUS MENTIONED AND YOU MUST MAKE YOUR OWN DETERMINATION OF ITS SUITABILITY AND COMPLETENESS FOR YOUR OWN USE, FOR THE PROTECTION OF THE ENVIRONMENT, AND THE HEALTH AND SAFETY OF YOUR EMPLOYEES AND USERS OF THIS MATERIAL. COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD 29CFR1910.1200.